PWS-15 / PWS-12 POWERED SPEAKERS

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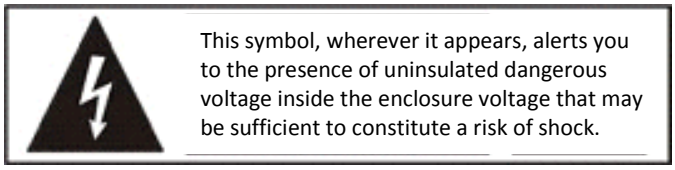
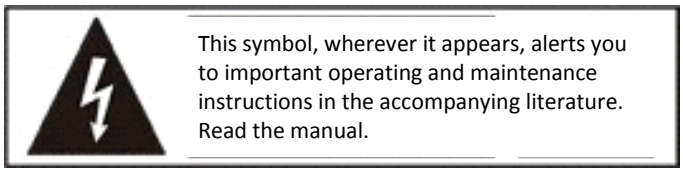
OPERATING MANUAL

SAFETY INSTRUCTIONS

Caution: To reduce the risk of electrical shock, do not remove the cover (or back). No user serviceable parts inside; refer to servicing to qualified personnel.

Warning: To reduce the risk of fire or electrical shock, do not expose this equipment to rain or moisture.


This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure voltage that may be sufficient to constitute a risk of shock.


This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

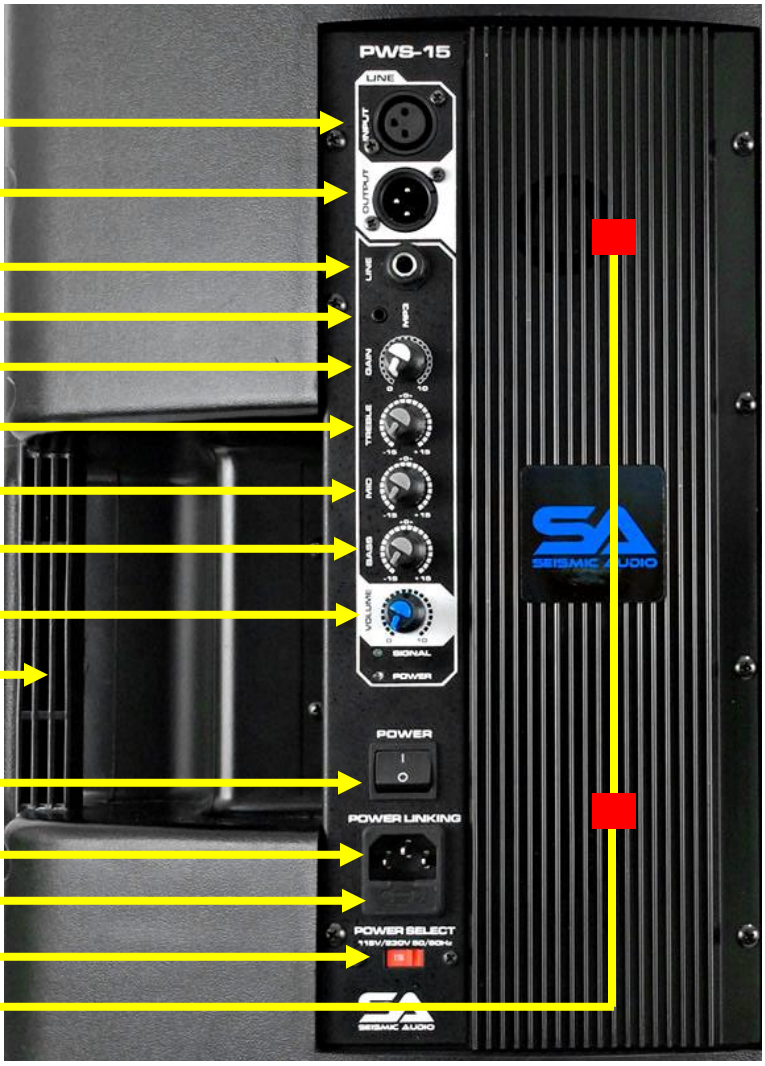
PWS-15 Specs:

MODEL	PWS-15
CONTENTS	15" Molded Full Range PA/DJ Active Speaker
CONDITION	New
APPLICATION	Main / PA Loudspeaker / Monitor
ACTIVE/PASSIVE	Active / Powered
WOOFER	15" Loudspeaker
WOOFER SPECS	50 oz Magnet and 3" Voice Coil
TWEETER/HORN	Titanium Compression Driver with Wide Dispersion Horn
POWER	600 Watts RMS
FREQUENCY RESPONSE	45 Hz - 20 kHz
SENSITIVITY	99 dB
CONNECTORS	1/8" Input for iPod, iPhone, or MP3 1/4" Balanced End Input XLR Female Input XLR Male Output
NOMINAL IMPEDANCE	8 Ohms
PORTS	Yes
GRILL	Full Metal Grill
HANDLES	Yes, Side Handle
MOLDING	Lightweight ABS Plastic Cabinet with Feet
POLE MOUNT	Yes
HEIGHT	27.5"
WIDTH	19.5"
DEPTH	14.5"
WEIGHT	49 lbs per Cabinet
WARRANTY	One Year Warranty
SPECIAL FEATURES	Power Switch Fuse Protection Master Volume Control
SPECIAL FEATURES	3 Band Equalizer -Bass -Mid -Treble
SPECIAL FEATURES	Preamp Gain Volume
SPECIAL FEATURES	Can be Daisy Chained Speakon Output to Power another Passive Speaker
SPECIAL FEATURES	Angled Side for Monitor Use

PWS-12 Specs:

MODEL	PWS-12
CONTENTS	12" Molded Full Range PA/DJ Active Speaker
CONDITION	New
APPLICATION	Mains / PA Loudspeaker / Monitors
ACTIVE/PASSIVE	Active / Powered
WOOFER	12" Loudspeaker
WOOFER SPECS	50 oz Magnet and 3" Voice Coil
TWEETER/HORN	Titanium Compression Driver with Wide Dispersion Horn
POWER	500 Watts RMS
FREQUENCY RESPONSE	45 Hz - 20 kHz
SENSITIVITY	98 dB
CONNECTORS	1/8" Input for iPod, iPhone, or MP3 1/4" Balanced End Input XLR Female Input XLR Male Output
NOMINAL IMPEDANCE	8 Ohms
PORTS	Yes
GRILL	Full Metal Grill
HANDLES	Yes, Side Handle
MOLDING	Lightweight ABS Plastic Cabinet with Feet
POLE MOUNT	Yes
HEIGHT	23"
WIDTH	16.25"
DEPTH	13.25"
WEIGHT	42 lbs per Cabinet
WARRANTY	One Year Warranty
SPECIAL FEATURES	Power Switch Fuse Protection Master Volume Control
SPECIAL FEATURES	3 Band Equalizer -Bass -Mid -Treble
SPECIAL FEATURES	Preamp Gain Volume
SPECIAL FEATURES	Built In High Efficient Amplifier
SPECIAL FEATURES	Can be Daisy Chained Speakon Output to Power another Passive Speaker
SPECIAL FEATURES	Angled Side for Monitor Use

PWS-15 and PWS-12 Amplifier Controls:



XLR 3-Pin Female Input

XLR 3-Pin Male Output

1 / 4 " Female Line Input

1 / 8 " Female Line Input for MP3

Gain Control Knob

Treble Control Knob

Mids Control Knob

Bass Control Knob

Volume Control Knob

Carry Handle

On/Off Switch

AC Adapter Plug

Fuse Compartment

Voltage Selector Switch

(2) Internal Fans

Speakon Power Output

Use this Output jack to power a Non Powered Passive speaker similar to specs of PWS. If you connect an 8 ohm speaker to this jack, the built in amp on the PWS will change to 4 ohm and double the power output.

Replacement Parts and Accessories

Titatium Horn / Model: T-Driver

The T Driver will give you the crisp clean highs you desire with a frequency response of 1.5K - 20K and 100 watts RMS. These will fit all horns with a 1 3/8" thread.

Crossover / Model: SACN-153

Replacement Crossover for PWS-15 and PWS-12

PWS-15 Amplifier / Model: PWS15Amp

Replacement Amplifier for PWS-15

PWS-12 Amplifier / Model: PWS12Amp

Replacement Amplifier for PWS-12

Non Powered Speaker – Model: NPS-15 & NPS-12

Non Powered Version of Molded Speaker for use with PWS-15 and PWS-12

CBulb – Model: CBulb

Replacement Fuse for PWS-15 and PWS-12 Crossover

AmpBulb – Model: AmpBulb

Replacement Fuse for PWS-15 and PWS-12 Amplifier

Replacement Speaker – Model: Richter15

Replacement Speaker for PWS-15

Replacement Speaker – Model: Richter12

Replacement Speaker for PWS-12

Speaker Covers – Model: P15Cover or P12Cover

Speaker Cover for PWS-15 and PWS-12

Speaker Stands – Model: SpeakerStands

Speaker Stands for PWS-15 and PWS-12

Speaker Cable – Model: SATRXL-M25

XLR 3-pin Male to TRS ¼" Male Balanced cable, 25 ft long.

Speaker Cable – Model: SAXLX-25

XLR 3-pin Male to XLR 3-pin Female Balanced cable, 25 ft long.

Speaker Cable – Model: SATRX-25

¼" TRS Male to ¼" TRS Male Balanced cable, 25 ft long.

Splitter Cable – Model: SAiXLRY10

10 ft long XLR Splitter to single 1/8" headphone cable for use with ipods, laptops and mp3 players.

MP3 / Ipod Cable – Model: SA-iE10

10 ft 1/8" to 1/8" cable for use with ipods, laptops and mp3 players.

NOTE: Speaker Cabinet Molds, Speaker Control Knobs and other internal component or parts are available by phone order only…

Connection Example 1

This example shows how to connect two PWS-15 or PWS-12 speakers to a standard Mixer. This application requires (2) XLR 3 pin male to female cables. Seismic Audio offers these cables. The model number is: SAXLX-25.

To start, take the female end of the first cable and insert it into the output jack labeled **MAIN OUT LEFT** on your mixing board. Then insert the male end of the cable into the XLR input of the first or left PWS speaker. Repeat these steps using the other cable and insert the female end into the **MAIN OUT RIGHT** on the mixing board, followed by inserting the male end of the cable to the second or right PWS speaker.

Connection Example 2

Standard 3-Pin XLR Microphone Cables (Male to Female)

Daisy Chaining Signal from one PWS Amp to another PWS Amp

This example shows how to connect two PWS-15 or PWS-12 speakers to a standard Mixer using one MAIN OUT jack on your mixer. By choosing this method, it will free up one main out jack on the mixing board and allow the PWS speakers to be Daisy Chained. This application requires (2) XLR 3 pin male to female cables. Seismic Audio offers these cables. The model number is: SAXLX-25.

To start, take the female end of the first cable and insert it into the output jack labeled **MAIN OUT LEFT** on your mixing board. Then insert the male end of the cable into the XLR input of the first or left PWS speaker. Second, insert the female end of the second XLR cable into the XLR output jack of the first PWS. Lastly, insert male end of the XLR cable into the XLR input jack on the second PWS speaker.

Connection Example 3

Connecting a PWS speaker to any headphone jack device using a 1/8” to 1/8” cable

Insert a 1/8” cable into the MP3 line input on the PWS speaker and plug the other end into any device that accepts the 1/8” headphone connection. See Seismic Audio Part # SA-iE25 for 1/8” cable.

Example cable:

Connection Example 4

Use the Seismic Audio cable: SAXFRM-2x5 to plug your DJ Controller or any other RCA output device into the XLR inputs of the PWS speakers.

Adding Powered Sub Woofers to a PWS speaker can be done easily by inserting a standard XLR 3 pin male to female cable between the PWS speaker output into the Subwoofers XLR input.

(See Diagram)

Connection Example 5

Connecting a PWS-12 or PWS-15
to a Passive Speaker

PWS-15 Powered Speaker

NPS-15 Non-Powered Speaker

The PWS-15 and PWS-12 have the option to power a passive speaker. The passive speaker needs to be rated at 8 ohm and close to the same spec ratings as the powered speaker. To connect a passive speaker to the PWS; Connect a Speakon cable into the Active Output Jack on the PWS and insert other end to either the speakon or ¼" input on a passive speaker. After doing this, the passive speaker sound should be similar to PWS speaker. The PWS amp changes from an 8 ohm load to a 4 ohm load and doubles the power output to ensure each speaker cabinet is getting the same power.

Frequently Asked Questions

- Can you run a subwoofer off of the "Speakon Active Output" jack?
    - Answer: The PWS-15 was designed to power another 15" PA speaker that has equal power watt ratings. This statement is true for the PWS-12. It is not recommended to run another speaker that is rated more power or is larger than the PWS ratings.

- How much Power does the "Speakon Active Output" jack send to a passive speaker?
    - Answer: The PWS amplifier runs an 8 ohm load. When an 8 ohm passive speaker is connected, the amplifier switches to 4 ohm and doubles the power.

- How do I daisy chain other powered or active speakers?
    - Answer: You can daisy chain other powered speakers by using the XLR inputs and XLR outputs on the PWS speakers.

- Why is my second PWS speaker not working? I have one PWS speaker connected to my mixer with a ¼" cable and I have an XLR cable connected from the PWS speaker 1 XLR output to the XLR Input of PWS speaker 2.
    - Answer: Daisy chaining the signal to a second PWS speaker only works when you are using the XLR jacks only for input and output.

- What is the difference between the gain knob and volume knob? They seem to both do the same thing.
    - Answer: The gain knob controls the level or strength of signal before the signal is amplified. The gain setting determines how clean or dirty your sound is. The Volume knob controls the power amp and the strength of the sound.

- When I plug a microphone into the input jack, I can barely hear it, why is that?
    - Answer: The input jacks on the PWS-15 and PWS-12 are not meant for line level microphones to be connected. The signal from the microphone will not be hot enough. If you need to run a microphone, it is recommended add a small sound board or mixer to your PWS speakers.

- Will the XLR jacks pass through a signal if the speaker is turned off?
    - Answer: Yes, The XLR jacks do act as a pass through.

- Can you use these speakers with an external power amplifier?
    - Answer: No, hooking an external power amplifier to these speaker will damage both the built in amplifier and speakers.

- How do you open up the cabinet to work on it?
    - Answer: There are multiple phillip head screws around both sides on the back side of the speaker. There are also two screws at the top rear and two screws on the bottom rear that must come out. This will require an extension bit or long handle screw driver.

- How do you hang these from a ceiling?
    - Answer: There are (4) pre-installed fly points on the speaker cabinet. One on each side and one on top and the bottom. You can purchase an eye bolt from any hardware store. The size needed is: 8x1.25mm